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that these five classes are broken up again into forty-five smells, and each smell has a name! The author has, here and there, made a little blunder of an amusing, but not serious character. For instance, our old friend of the bogs, skunk cabbage, figures as *Pothos fœtida*, under the head *odore alliaceo*, and again with the name *Simplocarpus* (sic) *fœtidus* in the monotypic class *odore mœfitico*; which is not so bad, after all. The volume is as attractive to entomologists as to botanists; both will find it full of suggestions in regard to examinations of flowers and their visitants; both will complain that a work so full of details should have no index. The table of contents is analytical and full, but does not replace the index which we have the right to expect.

RECENT BOOKS AND PAMPHLETS. — The Structure and Development of the Sting and Ovipositor of Certain Hymenoptera and the Green Grasshopper. By Dr. H. Dewitz. 8vo, pp. 26. (From Siebold and Köl liker's Zeitschrift.)

List of the Fishes, Tunicata, Polyzoa, Crustacea, Annulata, Entozoa, Echinodermata, Anthozoa, Hydrozoa, and Sponges known from Greenland. Compiled for the use of the British North-Polar Expedition. By Dr. Chr. F. Lütken. 1875. 8vo, pp. 115 to 197. London.

The Vertebrata of the Cretaceous Formations of the West. By E. D. Cope. United States Geological Survey of the Territories. Washington, D. C., 1875. 4to, pp. 303. With 57 lithographic plates. (For sale by the Naturalist's Agency, Salem, Mass.)

Recherches sur les Phénomènes de la Digestion chez les Insectes. By F. Plateau. Bruxelles. 1874. 4to, pp. 124, 3 plates.

Check List of the Noctuidæ of America North of Mexico. By A. R. Grote. I. Bombyciæ and Noctuelitæ. Buffalo, N. Y. 1875. 8vo, pp. 28, with a plate. (For sale by the Naturalist's Agency, Salem, Mass.)

The American Journal of Microscopy. New York Industrial Publication Co. Vol. I. No. 1. December, 1875. 8vo, pp. 12. Fifty cents a year, single number six cents.

The Illustrated Annual Register of Rural Affairs for 1876. Albany, New York: Luther Tucker and Son. No. 22. 12mo, pp. 134.

Synopsis of the Odonata of America. By Dr. H. A. Hagen. (From the Proceedings of the Boston Soc. Nat. Hist. xviii, 1875.) Boston, 1875. 8vo, pp. 76.

Bulletin of the United States National Museum. No. 1. Check List of North American Batrachia and Reptilia. By Edward D. Cope. (Department of the Interior, U. S. National Museum.) Washington, D. C. 1875. 8vo, pp. 104.

Die Gastrula und die Eifurchung der Thiere. By Ernst Haeckel. (From the Jenaische Zeitschrift, 1875.) With 7 plates. 8vo, pp. 106.

GENERAL NOTES.

BOTANY.¹

DICHOGAMY IN *EPILOBIUM ANGUSTIFOLIUM*. — That the anthers shed their pollen before the stigmas of that flower are in condition to receive it, is one of the observations of Sprengel, at the very beginning of our knowledge of this subject. But he seems not to have called attention to the additional security against close-fertilizing, caused by the recurving of the style during the early anthesis, while the pollen is shed-

¹ Conducted by PROF. G. L. GOODALE.